

What is claimed is:

1. *canceled*

2. *(currently amended)* The medical wireless capsule-type endoscope system as claimed in Claim 1, comprising ~~characterized in that,~~ a temperature sensor (11A) ~~and/or a pressure sensor (11B)~~ are mounted within the housing (12) of the wireless endoscope capsule (100A), ~~wherein the pressure sensor (11B) is closely mounted on the inner wall of the housing (12);~~ and the outputs of the temperature sensor is (11A) ~~and the pressure sensor (11B)~~ are connected to the I/O ports of the first microprocessor (6).

3. *(currently amended)* The medical wireless capsule-type endoscope system as claimed in Claim 1 ~~17~~, further comprising ~~characterized in that, said system further includes~~ a wireless terminal (100G) connected with the computerized medical image workstation (100E); the information from the control terminals of the second microprocessor (14) of the portable image recording device (100B) is sent to the wireless terminal (100G) of the computerized medical image workstation (100E) by the second RF transceiver module (13) of the portable image recording device (100B), and the information received from the wireless terminal (100G) of the computerized medical image workstation (100E) by the antenna array (100F) is sent by the wireless transceiver module (13) of the portable image recording device (100B) to the second microprocessor (14) by the bus for processing, and then sent to wireless endoscope capsule (100A).

4. *(currently amended)* The medical wireless capsule-type endoscope system as claimed in Claim 1 ~~17~~, characterized in that, said system also includes a GPRS terminal (100H) and a wireless terminal (100G) connected with the computerized medical image workstation (100E), the portable image recording device (100B) exchanges data with the GPRS terminal (100H), and the GPRS terminal (100H) exchanges data with wireless terminal (100G) of the computerized medical image workstation (100E) through GPRS mobile network (100H1).

5. *(currently amended)* The medical wireless capsule-type endoscope system as claimed in Claim 3, characterized in that, said system further includes a storage medium reader (100D) ~~wiredly~~ connected with the computerized medical image workstation (100E) and a storage medium (100C),

and the storage medium (100C) is connected with the second microprocessor (14) of the portable image recording device (100B) ~~through the socket by the bus.~~

6. (*currently amended*) The medical wireless capsule-type endoscope system as claimed in Claim ~~±~~ 17, characterized in that, said power switch module (8) is magnetic switch module and the magnetically controlled switch (S1) of the magnetic switch module (8) is switched on in the magnetic field, and after the magnet is removed, it is switched off.

7. (*currently amended*) The medical wireless capsule-type endoscope system as claimed in Claim ~~±~~ 17, characterized in that, the system further includes a wireless terminal (100G) connected with the computerized medical image workstation (100E) and a CDMA, GSM or WLAN terminal (100H); the portable image recording device (100B) exchanges data with the CDMA, GSM or WLAN terminal (100H), and said CDMA, GSM or WLAN terminal (100H) exchanges data with wireless terminal (100G) of the computerized medical image workstation (100E) through corresponding mobile network.

8. (*new*) A medical wireless capsule-type endoscope system comprising: a wireless endoscope capsule, an antenna array, a portable image recording device, a storage medium, and a computerized medical image workstation.

9. (*new*) A system according to Claim 8, wherein the wireless endoscope capsule includes a housing (12), an optical front cover (2) connected to the housing (12), an LED array (3) arranged within the housing (12) in sequence, a lens (4), a power switch module (8), an image sensor (5), a first microprocessor (6), containing an I/O port for transforming the image information into a compressed JPEG format, a first RF transceiver module (9), and a transceiver antenna.

10. (*new*) A system according to Claim 9, wherein the portable image device (100B) includes a transceiver antenna array (100F), a second RF transceiver module (13), a second microprocessor (14) and a storage unit (15) connected with the bus thereof, wherein the second RF transceiver module sends control commands from the control terminals of the second microprocessor (14) to the wireless endoscope capsule (100A).

11. (*new*) A system according to Claim 10, wherein the portable image device (100B) includes

a transceiver antenna array (100F), a second RF transceiver module (13), a second microprocessor (14) and a storage unit (15) connected with the bus thereof, wherein the second RF transceiver module communicates the information received from the wireless endoscope capsule (100A) by the antenna array (100F) to the second microprocessor (14).

12. (*new*) A wireless endoscope device including a housing (10), an optical front cover (2) connected to the housing (12), an LED array (3) arranged within the housing (12) in sequence, a lens (4) and a power switch module (8), an image sensor (5), a first microprocessor (6), containing an I/O port, a first RF transceiver module (9), and a transceiver antenna.

13. (*new*) A wireless endoscope device according to Claim 12 wherein the power switch module is magnetic switch module and the magnetically controlled switch (S1) of the magnetic switch module (8) is switched on in the magnetic field, and after the magnet is removed, it is switched off.

14. (*new*) A wireless endoscope device according to Claim 12 further comprising a pressure sensor mounted within the housing of the wireless endoscope capsule, wherein the pressure sensor is closely mounted on the inner wall of the housing and the outputs of the pressure sensor are connected to the I/O ports of the first microprocessor.

15. (*new*) A wireless endoscope device according to Claim 12 further comprising a temperature sensor mounted within the housing of the wireless endoscope capsule, wherein the outputs of the temperature sensor are connected to the I/O ports of the first microprocessor.

16. (*new*) A wireless endoscope device according to Claim 12 further comprising a temperature sensor and a pressure sensor mounted within the housing of the wireless endoscope capsule wherein the pressure sensor is closely mounted on the inner wall of the housing, and the outputs of the temperature sensor and the pressure sensor are connected to the I/O ports of the first microprocessor.

17. (*new*) A system according to Claim 10, wherein the signal output of the image sensor (5) is connected with the I/O port of the first microprocessor (6); wherein the image information received is transformed into compressed JPEG format by the first microprocessor (6) and then sent to a data receiving terminal of the first RF transceiver module (9); the first RF transceiver module sends the

collected information to the portable image recording device (100B) via the antenna (10) after the control commands received from the image recording device by the antenna (10) are sent by the first RF transceiver module (9) to the first microprocessor (6) for processing; wherein the operating modes of the LED array (3), the image sensor (5) and the first RF transceiver module (9) are controlled by the I/O ports of the first microprocessor (6).

18. (*new*) The medical wireless capsule-type endoscope system as claimed in Claim 17, comprising a temperature sensor (11A) and a pressure sensor (11B) mounted within the housing (12) of the wireless endoscope capsule (100A), wherein the pressure sensor (11B) is closely mounted on the inner wall of the housing (12), and the outputs of the temperature sensor (11A) and the pressure sensor (11B) are connected to the I/O ports of the first microprocessor (6).

19. (*new*) The medical wireless capsule-type endoscope system as claimed in Claim 17, comprising a pressure sensor (11B) mounted within the housing (12) of the wireless endoscope capsule (100A), wherein the pressure sensor (11B) is closely mounted on the inner wall of the housing (12) and the outputs of the pressure sensor (11B) are connected to the I/O ports of the first microprocessor (6).

20. (*new*) A system according to Claim 17 wherein the information is recorded in the storage medium (100C) and read into the computerized medical image workstation (100E) by the storage medium reader (100D) for processing, displaying and analyzing.